South Dakota State University

ECE 478: Integrated Curriculum in Birth-to-Age-8 Education

Concepts addressed in this course: Types of communications and interactions that can stimulate discussion in different ways for particular purposes: facilitating factual recall

Review notes on building fluency in both math and reading. Review: “National Reading Panel: Teaching Children to Read” section on fluency.

Children who have automaticity can automatically look at a word or a mathematical figure and identify it as well as understand what it means. Automaticity is a required skill in both reading and math for children to become effective and skilled readers and mathematicians.

Review strategies for building fluency, including:

- Repeated practice with the same text
- Drill and practice
- Identifying sounds, words, number operations in context

Provide children with mnemonics and other techniques to help them remember key facts/data, for example:

- A song to remember how to spell color names
- A poem to remember the names of the continents
- Mnemonic “never eat soggy waffles” to remember cardinal directions
- Picture clues

Practice symbols in classroom routines to reinforce this concept: What does “Give me five” mean?